

ABSTRACT OF THE DISCLOSURE

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A method of manufacturing a carcass structure for vehicle tyres includes the steps of making at least one carcass ply by deposition of elongated sections circumferentially distributed on a toroidal support and applying annular reinforcing structures to a region close to inner circumferential edges of the at least one carcass ply. Each of the elongated sections extends in a U-shaped configuration around a cross-sectional outline of the toroidal support to define two side portions mutually spaced apart in an axial direction and one crown portion extending at a radially outer position between the side portions. Each of the elongated sections is laid down substantially in a plane parallelly offset relative to a meridian plane of the toroidal support. A related carcass structure and tyre are also disclosed.

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